

SEQUENCE LISTING

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Daniel SCHERMAN

Beatrice CAMERON

Pierre WILS

Anne-Marie DARQUET

<120> DNA MOLECULES, PREPARATION AND USE IN GENE THERAPY

<130> MINICIRCLE

<140>

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<160> 50

<170> PatentIn Ver. 2.1

<210> 1

<211> 37

<212> DNA

<213> Séquence artificielle

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<223> Description of the artificial sequence:  
oligonucleotide

TOPT-100-1001

<400> 1

aattgtgaag cctgcttttt tatactaact tgagcgg

37

<210> 2

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aattccgctc aagttagtat aaaaaagcag gcttcac

37

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<223> Description of the artificial sequence:  
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<400> 3

ctgctttttt atactaactt g

21

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<211> 21

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 4

cagctttttt atactaagtt g

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<211> 21

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cagcgcattc gtaatgcgaa g

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<400> 6

cttataattc gtaatgcgaa g

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aacactttct taaatggtt

19

<210> 8

<211> 19

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 8

aacactttct taaattgtc

19

<210> 9

<211> 19

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

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aagggattta aaatccctc

19

<210> 10

<211> 19

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<223> Description of the artificial sequence:  
oligonucleotide

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atggtattta aaatccctc

19

<210> 11

<211> 49

<212> DNA

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<223> Description of the artificial sequence:  
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ttctctgtcg gggtagcgagg atttgaaccc acgacctctt cgtcccgaa

49

<210> 12

<211> 119

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

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ttctttttttt tcttgaagcc tgcttttttta tactaagttg gcattataaa aaagcattgc 60  
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ttctttttttt tcttgaagcc tgctttttta tactaacttg agc

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<210> 14

<211> 27

<212> DNA

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<223> Description of the artificial sequence:  
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cgtcgaaata ttataaatta tcagaca

27

<210> 15

<211> 25

<212> DNA

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gaggcttctt cttcttcttc ttctt

25

<210> 16

<211> 20

<212> DNA

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ttctttcttgc ttctcttctt

20

<210> 17

<211> 20

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 17

ttctttcttgt ttctcttctt

20

<210> 18

<211> 20

<212> DNA

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<223> Description of the artificial sequence:



oligonucleotide

<400> 18

ttctttcttcc ttctcttctt

20

<210> 19

<211> 20

<212> DNA

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<223> Description of the artificial sequence:

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20

<210> 20

<211> 57

<212> DNA

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<223> Description of the artificial sequence:

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57

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<210> 21

<211> 57

<212> DNA

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<210> 22

<211> 66

<212> DNA

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agatct 66

<210> 23

<211> 66

<212> DNA

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tcttca 66

<210> 24

<211> 56

<212> DNA

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<400> 24

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<210> 25

<211> 21

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oligonucleotide

<400> 25

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<210> 26

<211> 56

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<210> 27

<211> 56

<212> DNA

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oligonucleotide

<400> 27

agctggagct cgcggccgct ctagaggatc cgaattcgat atcctgcagc tcgaga 56

<210> 28

<211> 49

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 28

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<210> 29

<211> 57

<212> DNA

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<223> Description of the artificial sequence:  
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<400> 29

agctctgaag cctgcttttt tatactaact tgagcggatg catggccact agtagct 57

<210> 30

<211> 29

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 30

gcgtctagaa cagtatcgtg atgacagag 29

<210> 31

<211> 29

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 31

gccaaagctta gctttgcact ggattgcga

29

<210> 32

<211> 14

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 32

aagaaaaaaaa agaa

14

<210> 33

<211> 36

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 33

aaagatccgc gtcgactttg tgcttctctg gagtgc

36

<210> 34

<211> 23

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 34

aaacctagga aatcaaataa tga

23

<210> 35

<211> 47

<212> DNA

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oligonucleotide

<400> 35

tcgagttcctt ttttttcttg aagcctgctt ttttactaac ttgagcg

47

00991800 104901  
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<210> 36

<211> 49

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 36

agctcgctca agttagtata aaaaagcagg cttcaagaaa aaaaagaac 49

<210> 37

<211> 30

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 37

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<210> 38

<211> 40

<212> DNA

<213> Artificial sequence



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<223> Description of the artificial sequence:  
oligonucleotide

<400> 38

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40

<210> 39

<211> 61

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
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<400> 39

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61

<210> 40

<211> 61

<212> DNA

<213> Artificial sequence

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oligonucleotide

<400> 40

cgcgtagctag ttctccaaaa aaaaaggctc caaaaggagc ctttaattgt atcggtttat 60  
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<210> 41

<211> 23

<212> DNA

<213> Artificial sequence

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oligonucleotide

<400> 41

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<210> 42

<211> 23

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 42

aaacatatgt tcactccatc caa 23

<210> 43

<211> 22

<213> Artificial sequence

<223> Description of the artificial sequence:  
oligonucleotide

aaaactagta tggcgattgc aa

22

<211> 22

<213> Artificial sequence

<223> Description of the artificial sequence:  
oligonucleotide

aaagaattcg cagtcaaacg cg

22

<211> 27

<213> Artificial sequence

<223> Description of the artificial sequence:  
oligonucleotide

<400> 45

aaaacatatg tacttgacac ttcagga

27

<210> 46

<211> 30

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 46

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30

<210> 47

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 47

tcttttttttc ct

12

<210> 48

<211> 14

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oligonucleotide

<400> 48

ttctttttttt tctt

14

<210> 49

<211> 25

<212> DNA

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<223> Description of the artificial sequence:  
oligonucleotide

<400> 49

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25

<210> 50

<211> 20

<212> DNA

<213> Artificial sequence

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<223> Description of the artificial sequence:  
oligonucleotide

